"IMPROVEMENTS TO ROADS AND DRAINS AT BHARATHNAGARA , SADIQ LAYOUT, ANJANADRI LAYOUT, BALANCE ROADS AND SURROUNDING AREA IN WARD NO.06 BYATARAYANAPURA SUB DIVISION ."

# Quality Control Reports

## First & Final Bill

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## QC ABSTRACT

**NAME OF WORK:** Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Steel | Bend test | One Test | | 1 | 1 |
| | | Tensile Test | One Test | | 1 | 1 |
| | | Yield Test | One Test | | 1 | 1 |
| | | ReBend test | One Test | | 1 | 1 |
| 6 | KERB | Core Compressive strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive strength | One Test | | 1 | 1 |
| 7 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 8 | Precast (250mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 9 | RCC(M20) | Compressive Strength(7days and 28days) | 30 set /1350-1400 cum | 1349.7 | 60 | 60 |
| 10 | Cement Concrete Pavemet (M30) | Compressive Strength(7days and 28days) | 24 set /1000-1100 cum | 1012.72 | 48 | 48 |
| 11 | GSB | SIEVE ANALYSIS | One Test | | 1 | 1 |



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Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2022-07-01-01 **Date: 16-04-2022** |
| **Project Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadri Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| **Agency** | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **Date of Receipt** | : | 13-04-2022 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11) 1988<br>IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability<br>IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 14-04-2022 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.95 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 285.3 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 29.5% | Not specified |
| 5 | Initial Setting time | 150 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 245 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024



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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 12-05-2022

| | | |
|---|---|---|
| **Lab ID** | : | CP-2022-07-01-01 |
| **Project Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| **Agency** | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **Date of Receipt** | : | 13-04-2022 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 14-04-2022 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

* The results obtained are satisfactory as per standard requirements.

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2022-07-01-01** **Date: 16-04-2022** |
| **Project Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| **Agency** | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **Date of Receipt** | : | 13-04-2022 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 13-04-2022 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 215 | 215 | 1.4 | 98.6 | 90-100 |
| 3 | 20 mm | 7455 | 7670 | 51.1 | 48.9 | 30-70 |
| 4 | 10 mm | 4266 | 11936 | 79.6 | 20.4 | 10-35 |
| 5 | 4.75 mm | 2844 | 14780 | 98.5 | 1.5 | 0-5 |
| 6 | Pan | 220 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2022-07-01-01** **Date: 16-04-2022**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.9 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.3 | |
| 3 | Specific Gravity | 2.64 | - |
| 4 | Bulk Density(Loose) (Kg/l) | 1.41 | - |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.47 | - |
| 6 | Water Absorption(%) | 0.23 | - |

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2022-07-01-01** **Date: 15-04-2022** |
| **Project Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| **Agency** | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **Customer Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **Date of Receipt** | : | 13-04-2022 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 13-04-2022 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 235 | 235 | 4.7 | 95.3 | 90-100 |
| 3 | 10 mm | 2470 | 2705 | 54.1 | 45.9 | 25-55 |
| 4 | 4.75 mm | 2133 | 4838 | 96.8 | 3.2 | 0-10 |
| 5 | Pan | 162 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2022-07-01-01** **Date: 15-04-2022**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 13.1 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.5 | |
| 3 | Specific Gravity | 2.67 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.54 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.58 | – |
| 6 | Water Absorption(%) | 0.22 | – |
| 7 | Aggregate crushing Value(%) | 24.5 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.8 | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface. |

* The results obtained are satisfactory as per standard requirements.

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signature
**Quality Manager**

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# TEST REPORT OF FINE AGGREGATE

Date: 15-04-2022

| | | |
|---|---|---|
| ) ID | : | CP-2022-07-01-01 |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| te of Receipt | : | 13-04-2022 |
| mple Type | : | Fine Aggregate |
| ference to BIS codes | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| ıte of test | : | 13-04-2022 |
| ɔtal weight taken | : | 1000 grams |

| .no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 21 | 21 | 2.1 | 97.9 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 185 | 206 | 20.6 | 79.4 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 211 | 417 | 41.7 | 58.3 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 158 | 575 | 57.5 | 42.5 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 236 | 811 | 81.1 | 18.9 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 146 | 957 | 95.7 | 4.3 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 43 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

tesult :The tested Sample Conforms to Grading Zone II



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# TEST REPORT OF FINE AGGREGATE

b ID : CP-2022-07-01-01 Date: 15-04-2022

YSICAL PROPERTIES

| no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.42 | – |
| 2 | Specific Gravity | 2.53 | – |
| 3 | Material finer than 75 micron(%) | 3.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF STEEL

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 Date: 15-04-2022 |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadri Layout Balance Roads and Surrounding Area in Ward No. 66 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No 688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 13-04-2022 |
| ple Type | : | Sunvik |
| rence to BIS codes | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019. |
| e of test: | : | 14-04-2022 |

| No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

e results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF PRECAST COVER SLAB

Date: 25-04-2022

: CP-2022-07-01-01

ame : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

's Reference : BBMP/EE/BTP/WO/01/2021-22

eceipt : 20-04-2022

ype /Size : Precast Cover Slab (250 mm Thick)

to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

est : 20/04/2022

| Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| Cover Slab-1 | 200.56 | 250.36 | 2.169 | 31586 | 560.5 | 17.7 | 16.5 | 20.6 |
| Cover Slab-2 | 200.68 | 250.42 | 2.189 | 31624 | 580.5 | 18.4 | 17.1 | 21.3 |
| Cover Slab-3 | 200.96 | 250.86 | 2.197 | 31712 | 610.5 | 19.3 | 17.9 | 22.4 |

ılts obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
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# TEST REPORT OF PRECAST COVER SLAB

Date: 25-04-2022

| | | |
|---|---|---|
| | : | CP-2022-07-01-01 |
| Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| r's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Receipt | : | 20-04-2022 |
| Type /Size | : | Precast Cover Slab (100 mm Thick) |
| e to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| test | : | 20/04/2022 |

| Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

ults obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE KERB STONE

| | | |
|---|---|---|
| | : | **CP-2022-07-01-01** **Date: 25-04-2022** |
| **Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **ıer's Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **f Receipt** | : | 20-04-2022 |
| **: Type /Size** | : | CC Kerb Stone/ 450*165*400mm |
| **ıce to BIS codes** | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| **f test** | : | 20/04/2022 |

| Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| A | 100.01 | 165.51 | 2.864 | 7854 | 142.1 | 18.1 | 18.1 | 22.6 |
| B | 100.03 | 165.49 | 2.793 | 7857 | 145.2 | 18.5 | 18.5 | 23.1 |
| C | 100.01 | 165.50 | 2.815 | 7854 | 145.1 | 18.5 | 18.5 | 23.1 |

esults obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatrayanapura Sub Division
B.B.M.P. Bangalore-560024

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ›ID | : | CP-2022-07-01-01 **Date: 20/06/2022** |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ›ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| ›tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 15-06-2022 |
| ›tomer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| ›ple Type /Size | : | 150X150X150 mm |
| ›ple grade/Age | : | M30 / 7 Days Compressive Strength |
| erence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| e of test | : | 20/06/2022 |

| . | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 151.85 X 151.34 X 151.24 | 22981 | 8.516 | 586.6 | 25.5 | 25.5 |
| | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 151.22 X 150.36 X 151.98 | 22737 | 8.622 | 594.4 | 26.1 | |
| | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 149.71 X 151.97 X 150.33 | 22751 | 8.628 | 566.7 | 24.9 | |

e results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/07/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 15-06-2022 |
| Customer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 11/07/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 151.54 X 151.48 X 149.16 | 22956 | 8.517 | 769.7 | 33.5 | 33.0 |
| 2 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 149.72 X 149.53 X 151.14 | 22388 | 8.156 | 720.3 | 32.2 | |
| 3 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 150.05 X 149.25 X 151.06 | 22395 | 8.352 | 748.2 | 33.4 | |

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
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Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/07/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 15-06-2022 |
| stomer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| nple Type /Size | : | 150X150X150 mm |
| nple grade/Age | : | M30 / 28 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| te of test | : | 11/07/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 151.54 X 151.48 X 149.16 | 22956 | 8.517 | 769.7 | 33.5 | |
| 2 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 149.72 X 149.53 X 151.14 | 22388 | 8.156 | 720.3 | 32.2 | 33.0 |
| 3 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 150.05 X 149.25 X 151.06 | 22395 | 8.352 | 748.2 | 33.4 | |

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024



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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP/2022/07/01/01 |
| ject Name | : | Improvement to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadri Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K. Lakshmi Narayana Reddy, No.688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veerannapalya, Bangalore-560045 |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| te of Receipt | : | 15/06/2022 |
| stomer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| mple Type /Size | : | 150X150X150 mm |
| mple grade/Age | : | M30 / 7 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CED |
| te of test | : | 20/06/2022 |

Date: 20/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 149.37 X 150.31 X 150.43 | 22451 | 8.392 | 561.7 | 25.0 | 25.2 |
| 2 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 150.98 X 149.51 X 149.83 | 22574 | 8.574 | 599.9 | 26.6 | |
| 3 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 149.16 X 150.02 X 149.59 | 22378 | 8.372 | 538.1 | 24.0 | |

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TE/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/06/2022

| | | |
|---|---|---|
| **Lab ID** | : | CP-2022-07-01-01 |
| **Project Name** | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| **Agency** | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/01/2021-22 |
| **Date of Receipt** | : | 15-06-2022 |
| **Customer ID** | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 20/06/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 149.02 X 149.49 X 150.27 | 22276 | 8.317 | 558.7 | 25.1 | 25.5 |
| 2 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 150.16 X 150.77 X 149.00 | 22640 | 8.410 | 607.4 | 26.8 | |
| 3 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 150.12 X 150.66 X 149.15 | 22617 | 8.808 | 554.0 | 24.5 | |

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig ..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, B'lore-560024



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WATER TESTING | GEO TECHNICAL

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Certificate No.: TC-0548

Format No: CPTF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2022-07-01-01 Date: 11/07/2022

roject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

gency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ustomer's Reference : BBMP/EE/BTP/WO/01/2021-22

ate of Receipt : 15-06-2022

ustomer ID : Cement Concrete Pavement - Fathima Furniture Opposite Road

ample Type /Size : 150X150X150 mm

ample grade/Age : M30 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

ate of test : 11/07/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 149.25 X 151.83 X 151.13 | 22660 | 8.235 | 753.4 | 33.2 | 33.1 |
| 2 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 150.71 X 151.84 X 149.33 | 22884 | 8.831 | 753.4 | 32.9 | |
| 3 | Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 150.47 X 149.41 X 151.70 | 22482 | 8.799 | 746.7 | 33.2 | |

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/06/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| acy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| : of Receipt | : | 15-06-2022 |
| tomer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| : of test | : | 20/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 149.67 X 150.44 X 150.09 | 22517 | 8.964 | 579.7 | 25.7 | 25.6 |
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 151.84 X 151.90 X 151.33 | 23063 | 8.222 | 622.2 | 27.0 | |
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 20/06/2022 | 150.61 X 151.26 X 151.38 | 22781 | 8.378 | 549.8 | 24.1 | |

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager



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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ı ID | : | CP-2022-07-01-01 **Date: 11/07/2022** |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 15-06-2022 |
| tomer ID | : | Cement Concrete Pavement - Fathima Furniture Opposite Road |
| nple Type /Size | : | 150X150X150 mm |
| nple grade/Age | : | M30 / 28 Days Compressive Strength |
| erence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| e of test | : | 11/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 150.19 X 151.84 X 150.38 | 22806 | 8.101 | 756.4 | 33.2 | 32.8 |
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 151.57 X 149.98 X 152.00 | 22732 | 8.156 | 731.1 | 32.2 | |
| Cement Concrete Pavement - Fathima Furniture Opposite Road | M30 | 13/06/2022 | 11/07/2022 | 149.83 X 151.42 X 149.35 | 22686 | 8.232 | 750.6 | 33.1 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
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Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 22/06/2022** |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 17-06-2022 |
| mer ID | : | Cement Concrete Pavement - Cross Road 1 |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 7 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 22/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.55 X 151.98 X 151.86 | 22727 | 8.117 | 576.7 | 25.4 | 25.2 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 150.80 X 151.54 X 151.16 | 22853 | 8.630 | 597.7 | 26.2 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.36 X 149.58 X 149.56 | 22342 | 8.554 | 537.9 | 24.1 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2022-07-01-01

Date: 13/07/2022

ct Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

cy : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

mer's Reference : BBMP/EE/BTP/WO/01/2021-22

of Receipt : 17-06-2022

mer ID : Cement Concrete Pavement - Cross Road 1

le Type /Size : 150X150X150 mm

le grade/Age : M30 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 13/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.79 X 149.73 X 151.18 | 22728 | 8.511 | 759.1 | 33.4 | 33.1 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.55 X 151.85 X 149.59 | 23013 | 8.719 | 752.8 | 32.7 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.97 X 150.24 X 151.97 | 22833 | 8.166 | 759.9 | 33.3 | |

esults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-6548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/06/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 17-06-2022 |
| omer ID | : | Cement Concrete Pavement - Cross Road 1 |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 22/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.64 X 150.01 X 149.26 | 22448 | 8.534 | 567.6 | 25.3 | 25.7 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 150.05 X 151.93 X 151.89 | 22797 | 9.094 | 611.1 | 26.8 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.48 X 151.82 X 149.98 | 22693 | 8.752 | 566.0 | 24.9 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro
Sig .....
Date .....
BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/07/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ıcy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 17-06-2022 |
| omer ID | : | Cement Concrete Pavement - Cross Road 1 |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 13/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 149.49 X 149.15 X 151.23 | 22295 | 8.274 | 753.5 | 33.8 | 33.3 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.10 X 151.98 X 151.11 | 22964 | 8.535 | 737.6 | 32.1 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 149.25 X 151.81 X 151.00 | 22658 | 8.870 | 768.2 | 33.9 | |

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/06/2022

: CP-2022-07-01-01

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ıer's Reference : BBMP/EE/BTP/WO/01/2021-22

Receipt : 17-06-2022

ıer ID : Cement Concrete Pavement - Cross Road 1

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 22/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 150.78 X 151.93 X 150.57 | 22908 | 8.162 | 577.5 | 25.2 | 25.2 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.27 X 149.32 X 149.75 | 22288 | 8.379 | 584.7 | 26.2 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 151.41 X 149.31 X 149.24 | 22608 | 8.829 | 548.7 | 24.3 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 13/07/2022**

**Name** : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

**er's Reference** : BBMP/EE/BTP/WO/01/2021-22

**Receipt** : 17-06-2022

**ıer ID** : Cement Concrete Pavement - Cross Road 1

**Type /Size** : 150X150X150 mm

**grade/Age** : M30 / 28 Days Compressive Strength

**ıce to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

**test** : 13/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 150.22 X 149.55 X 151.87 | 22465 | 8.682 | 756.6 | 33.7 | 33.4 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 150.92 X 149.57 X 149.21 | 22572 | 8.109 | 736.3 | 32.6 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.64 X 150.05 X 149.26 | 22754 | 8.182 | 769.7 | 33.8 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯಲ್ಲಿರುವ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
**Quality Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ) | : | CP-2022-07-01-01 Date: 22/06/2022 |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| ner's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 17-06-2022 |
| ner ID | : | Cement Concrete Pavement - Cross Road 1 |
| e Type /Size | : | 150X150X150 mm |
| e grade/Age | : | M30 / 7 Days Compressive Strength |
| nce to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 22/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 151.47 X 149.98 X 151.76 | 22718 | 9.030 | 586.1 | 25.8 | 25.7 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 149.33 X 149.32 X 150.40 | 22297 | 8.977 | 586.9 | 26.3 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 22/06/2022 | 151.43 X 151.09 X 149.19 | 22880 | 8.823 | 568.5 | 24.8 | |

esults obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/07/2022

ID : CP-2022-07-01-01
ect Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division
ıcy : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.
omer's Reference : BBMP/EE/BTP/WO/01/2021-22
of Receipt : 17-06-2022
omer ID : Cement Concrete Pavement - Cross Road 1
ple Type /Size : 150X150X150 mm
ple grade/Age : M30 / 28 Days Compressive Strength
rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 13/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.05 X 149.53 X 149.16 | 22586 | 8.969 | 747.6 | 33.1 | 33.1 |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.05 X 149.63 X 151.05 | 22602 | 8.591 | 736.4 | 32.6 | |
| Cement Concrete Pavement - Cross Road 1 | M30 | 15/06/2022 | 13/07/2022 | 151.66 X 150.78 X 151.13 | 22867 | 8.198 | 769.4 | 33.6 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ab ID | : | CP-2022-07-01-01 **Date: 24/06/2022** |
| oject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| gency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| te of Receipt | : | 20-06-2022 |
| stomer ID | : | Cement Concrete Pavement - Cross Road 2 |
| mple Type /Size | : | 150X150X150 mm |
| mple grade/Age | : | M30 / 7 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| te of test | : | 24/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 151.52 X 149.56 X 150.16 | 22661 | 8.708 | 568.0 | 25.1 | 25.4 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 149.87 X 149.42 X 150.70 | 22393 | 8.130 | 592.9 | 26.5 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 149.97 X 150.15 X 150.16 | 22518 | 8.834 | 556.5 | 24.7 | |

: results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager



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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 15/07/2022** |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ıcy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 20-06-2022 |
| omer ID | : | Cement Concrete Pavement - Cross Road 2 |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 15/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 151.02 X 151.25 X 150.48 | 22841 | 8.157 | 760.0 | 33.3 | 33.2 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 150.28 X 151.96 X 150.25 | 22837 | 9.096 | 736.9 | 32.3 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 149.11 X 149.87 X 150.18 | 22347 | 8.446 | 758.3 | 33.9 | |

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 Date: 24/06/2022

ame : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

r's Reference : BBMP/EE/BTP/WO/01/2021-22

teceipt : 20-06-2022

r ID : Cement Concrete Pavement - Cross Road 2

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

:e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 24/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 151.85 X 151.23 X 150.00 | 22964 | 8.681 | 595.4 | 25.9 | 25.7 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 150.21 X 151.80 X 149.77 | 22802 | 8.837 | 601.1 | 26.4 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 149.24 X 149.87 X 149.92 | 22367 | 8.946 | 556.6 | 24.9 | |

sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ) | : | CP-2022-07-01-01 **Date: 15/07/2022** |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 20-06-2022 |
| mer ID | : | Cement Concrete Pavement - Cross Road 2 |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 28 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 15/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 149.47 X 150.10 X 149.50 | 22436 | 8.474 | 749.7 | 33.4 | 33.1 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 149.31 X 149.67 X 149.57 | 22348 | 8.271 | 734.9 | 32.9 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 151.53 X 150.41 X 150.42 | 22792 | 8.898 | 753.1 | 33.0 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/06/2022

: CP-2022-07-01-01

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ıer's Reference : BBMP/EE/BTP/WO/01/2021-22

f Receipt : 20-06-2022

ıer ID : Cement Concrete Pavement - Cross Road 2

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 24/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 150.79 X 149.15 X 149.81 | 22491 | 8.853 | 568.2 | 25.3 | 25.2 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 149.95 X 150.00 X 151.84 | 22492 | 8.677 | 589.3 | 26.2 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 150.47 X 150.21 X 149.85 | 22603 | 8.753 | 547.4 | 24.2 | |

results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/07/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 20-06-2022 |
| omer ID | : | Cement Concrete Pavement - Cross Road 2 |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 28 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 15/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 151.08 X 150.56 X 149.18 | 22748 | 8.305 | 754.5 | 33.2 | 32.9 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 149.18 X 149.48 X 150.10 | 22300 | 8.342 | 717.0 | 32.2 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 150.55 X 150.43 X 149.69 | 22647 | 8.797 | 757.7 | 33.5 | |

results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 Date: 24/06/2022

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ıer's Reference : BBMP/EE/BTP/WO/01/2021-22

'Receipt : 20-06-2022

ıer ID : Cement Concrete Pavement - Cross Road 2

: Type /Size : 150X150X150 mm

: grade/Age : M30 / 7 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 24/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 150.48 X 151.53 X 150.21 | 22803 | 8.627 | 574.8 | 25.2 | 25.2 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 150.72 X 151.02 X 150.14 | 22761 | 8.656 | 599.2 | 26.3 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 24/06/2022 | 149.34 X 149.60 X 150.90 | 22340 | 8.396 | 539.8 | 24.2 | |

ɛsults obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ) | : | **CP-2022-07-01-01** **Date: 15/07/2022** |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 20-06-2022 |
| mer ID | : | Cement Concrete Pavement - Cross Road 2 |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 28 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 15/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 150.17 X 150.07 X 149.63 | 22536 | 8.251 | 756.3 | 33.6 | 33.4 |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 150.20 X 149.85 X 151.93 | 22506 | 8.811 | 741.7 | 33.0 | |
| Cement Concrete Pavement - Cross Road 2 | M30 | 17/06/2022 | 15/07/2022 | 149.46 X 151.24 X 151.12 | 22604 | 8.988 | 758.8 | 33.6 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura ... Division
B.B.M.P Bangalore-560026

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

b ID : CP-2022-07-01-01
oject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division
ency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.
stomer's Reference : BBMP/EE/BTP/WO/01/2021-22
te of Receipt : 21-06-2022
stomer ID : Cement Concrete Pavement - 3rd Cross Road
mple Type /Size : 150X150X150 mm
mple grade/Age : M30 / 7 Days Compressive Strength
ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test : 26/06/2022

| L. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 150.64 X 150.56 X 151.84 | 22680 | 8.766 | 581.0 | 25.6 | 25.5 |
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.44 X 149.61 X 150.96 | 22357 | 8.247 | 584.9 | 26.2 | |
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 150.72 X 149.94 X 149.09 | 22598 | 8.766 | 560.3 | 24.8 | |

e results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
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Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 18/07/2022** |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 21-06-2022 |
| omer ID | : | Cement Concrete Pavement - 3rd Cross Road |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 17/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 150.06 X 151.50 X 151.77 | 22735 | 8.765 | 771.4 | 33.9 | 33.3 |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 150.91 X 150.94 X 151.32 | 22779 | 8.954 | 748.7 | 32.9 | |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 150.05 X 149.34 X 151.09 | 22409 | 8.108 | 739.5 | 33.0 | |

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 27/06/2022** |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 21-06-2022 |
| tomer ID | : | Cement Concrete Pavement - 3rd Cross Road |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 26/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 150.18 X 149.60 X 150.08 | 22467 | 8.384 | 568.5 | 25.3 | 25.6 |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.98 X 150.55 X 151.57 | 22579 | 8.370 | 606.2 | 26.9 | |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.67 X 150.03 X 150.72 | 22456 | 8.173 | 554.0 | 24.7 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| D | : | CP-2022-07-01-01 **Date: 18/07/2022** |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 21-06-2022 |
| mer ID | : | Cement Concrete Pavement - 3rd Cross Road |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 28 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 17/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 151.61 X 150.53 X 149.67 | 22822 | 8.532 | 753.8 | 33.0 | 32.9 |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 149.10 X 151.21 X 149.78 | 22545 | 8.656 | 724.1 | 32.1 | |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 150.38 X 151.14 X 150.06 | 22727 | 8.342 | 759.9 | 33.4 | |

results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE



****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2022-07-01-01

Date: 27/06/2022

oject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

ency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

stomer's Reference : BBMP/EE/BTP/WO/01/2021-22

te of Receipt : 21-06-2022

stomer ID : Cement Concrete Pavement - 3rd Cross Road

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

te of test : 26/06/2022

| L. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 150.75 X 150.98 X 151.16 | 22760 | 8.384 | 570.2 | 25.1 | 25.3 |
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.67 X 149.16 X 150.10 | 22324 | 9.090 | 596.7 | 26.7 | |
| | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 151.84 X 151.60 X 150.99 | 23018 | 8.742 | 555.7 | 24.1 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

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FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-07-01-01 Date: 18/07/2022

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 21-06-2022

Customer ID : Cement Concrete Pavement - 3rd Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/07/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 151.72 X 150.38 X 149.77 | 22816 | 8.187 | 770.3 | 33.8 | 33.2 |
| 2 | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 149.58 X 151.18 X 149.20 | 22614 | 8.111 | 730.0 | 32.3 | |
| 3 | Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 151.47 X 151.64 X 150.26 | 22969 | 8.483 | 774.0 | 33.7 | |

The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TT/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

: CP-2022-07-01-01

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

er's Reference : BBMP/EE/BTP/WO/01/2021-22

Receipt : 21-06-2022

er ID : Cement Concrete Pavement - 3rd Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 26/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.89 X 150.55 X 149.35 | 22565 | 8.710 | 575.7 | 25.5 | 25.3 |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 149.60 X 151.42 X 150.76 | 22653 | 8.569 | 591.8 | 26.1 | |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 26/06/2022 | 150.43 X 149.31 X 149.63 | 22460 | 8.674 | 546.4 | 24.3 | |

esults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | **CP-2022-07-01-01** **Date: 18/07/2022** |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| ner's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 21-06-2022 |
| ner ID | : | Cement Concrete Pavement - 3rd Cross Road |
| e Type /Size | : | 150X150X150 mm |
| e grade/Age | : | M30 / 28 Days Compressive Strength |
| nce to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 17/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 151.01 X 150.54 X 150.36 | 22733 | 8.345 | 759.4 | 33.4 | 33.1 |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 150.05 X 151.07 X 150.67 | 22668 | 8.534 | 729.5 | 32.2 | |
| Cement Concrete Pavement - 3rd Cross Road | M30 | 19/06/2022 | 17/07/2022 | 151.67 X 149.86 X 150.65 | 22728 | 8.748 | 768.5 | 33.8 | |

esults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 28/06/2022**

**Name** : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

**er's Reference** : BBMP/EE/BTP/WO/01/2021-22

**Receipt** : 23-06-2022

**er ID** : Cement Concrete Pavement - 4th Cross Road

**Type /Size** : 150X150X150 mm

**grade/Age** : M30 / 7 Days Compressive Strength

**ıce to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

**'test** : 28/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 149.42 X 149.97 X 149.35 | 22408 | 8.350 | 574.4 | 25.6 | 25.3 |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 151.55 X 150.51 X 151.40 | 22810 | 8.271 | 598.2 | 26.2 | |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 151.60 X 149.87 X 149.93 | 22721 | 8.743 | 545.8 | 24.0 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2022-07-01-01 Date: 20/07/2022

roject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

gency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ustomer's Reference : BBMP/EE/BTP/WO/01/2021-22

ate of Receipt : 23-06-2022

ustomer ID : Cement Concrete Pavement - 4th Cross Road

ample Type /Size : 150X150X150 mm

ample grade/Age : M30 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

ate of test : 19/07/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.60 X 151.72 X 151.30 | 22698 | 8.406 | 752.4 | 33.1 | 33.0 |
| 2 | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 150.15 X 149.84 X 150.77 | 22498 | 8.104 | 725.0 | 32.2 | |
| 3 | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 150.89 X 149.39 X 150.59 | 22541 | 8.657 | 755.5 | 33.5 | |

he results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
B.B.M.P. Sub Division

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 Date: 28/06/2022

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

er's Reference : BBMP/EE/BTP/WO/01/2021-22

Receipt : 23-06-2022

er ID : Cement Concrete Pavement - 4th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 28/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 149.37 X 149.73 X 150.89 | 22366 | 8.988 | 575.5 | 25.7 | 25.6 |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 150.99 X 150.74 X 149.85 | 22760 | 8.501 | 602.1 | 26.5 | |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 150.73 X 149.07 X 149.98 | 22470 | 8.404 | 552.8 | 24.6 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Quality Manager


****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 Date: 19/07/2022

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ıer's Reference : BBMP/EE/BTP/WO/01/2021-22

f Receipt : 23-06-2022

ıer ID : Cement Concrete Pavement - 4th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 19/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.76 X 150.60 X 150.64 | 22554 | 8.542 | 757.1 | 33.6 | 33.3 |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.41 X 150.98 X 149.81 | 22557 | 8.613 | 735.5 | 32.6 | |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.61 X 150.17 X 149.29 | 22468 | 8.638 | 759.0 | 33.8 | |

esults obtained are satisfactory as per standard requirements.

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Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : CP-2022-07-01-01 | Date: 28/06/2022 |
| t Name | : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division | |
| | : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. | |
| ner's Reference | : BBMP/EE/BTP/WO/01/2021-22 | |
| f Receipt | : 23-06-2022 | |
| mer ID | : Cement Concrete Pavement - 4th Cross Road | |
| e Type /Size | : 150X150X150 mm | |
| e grade/Age | : M30 / 7 Days Compressive Strength | |
| ence to BIS codes | : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 | |
| f test | : 28/06/2022 | |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 149.33 X 150.14 X 150.49 | 22421 | 8.302 | 578.5 | 25.8 | 25.9 |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 149.90 X 149.36 X 150.86 | 22389 | 8.453 | 603.9 | 27.0 | |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 151.33 X 151.77 X 149.03 | 22967 | 8.416 | 572.6 | 24.9 | |

results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Quality Manager


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